## CLAIMS

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An electrical connector for use in a power module, comprising:

a first end portion for forming an electrical connection with a substrate; a second end portion;

a compliant portion situated between said first end portion and said second end portion, wherein said compliant portion comprises a compressed position and a decompressed position; and

wherein said first end portion is configured for forming an electrical connection with a substrate if said compliant portion is in said compressed position.

- 2. The electrical connector of claim 1, wherein said first end portion extends outward from said second end portion.
- 3. The electrical connector of claim 1, wherein said first end portion extends inward to said second end portion.
  - 4. The electrical connector of claim 1, wherein said compliant portion is curved.
  - 5. The electrical connector of claim 1, wherein said compliant portion is curved outward from said second end portion
- 20 6. The electrical connector of claim 1, wherein said compliant portion is curved inward to said second and portion.
  - 7. The electrical connector of claim 1, further comprising a means for compressing said compliant portion from said uncompressed position to said compressed position.
- 25 8. The electrical connector of claim 7, wherein said means for compressing is downward pressure applied to said compliant portion.
  - 9. The electrical connector of claim 7, wherein said means for compressing is a component placed on said second end portion for exerting downward pressure to said compliant portion.

- 10. The electrical connector of claim 7, wherein said means for compressing is a fastener.
- 11. The electrical connector of claim 10, wherein said fastener is a bolt.
- 12. A **QC** Bus for use in a power module, comprising:
- 5 a positive DC conductor bus plate;
  - a negative DC conductor bus plate placed parallel to said positive bus;
  - a connector fastenable from at least one of said positive bus or said negative bus to a substrate in a power module;

wherein said connector further comprises:

- a first end portion for forming an electrical connection with a substrate;
- a second end portion fastenable from at least one of said positive bus or said negative bus to a substrate in a power module;
- a compliant portion situated between said first end portion and said second end portion, wherein said compliant portion comprises a compressed position and a decompressed position; and
- wherein said first end portion is configured for forming an electrical connection with said substrate if said compliant portion is in said compressed position.
- 13. The DC Bus of claim 12, wherein said first end portion extends outward from said second end portion.
- 14. The DC Bus of claim 12, wherein said first end portion extends inward to said second end portion.
- 15. The DC Bus of claim 12, wherein said compliant portion is curved.
- 16. The DC Bus of claim 12, wherein said compliant portion is curved outward25 from said second end portion
  - 17. The DC Bus of claim 12, wherein said compliant portion is curved inward to said second end portion.
  - 18. The DC Bus of claim 12, further comprising a means for compressing said compliant portion from said uncompressed position to said compressed position.



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- The DC Bus of claim 18, wherein said means for compressing is downward 19. pressure applied to said compliant portion.
- The DC Bus of claim 18, wherein said means for compressing is a 20. component placed on said second end portion for exerting downward pressure to said compliant portion.
- The DC Bus of claim 18, wherein said means for compressing is a fastener. 21.
- The DC Bus of claim 21, wherein said fastener is a bolt. 22.



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